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APPLICATION NO.		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/760,830	9/760,830 01/17/2001		Jun Fujita	06761.0040	4920
22852	7590	02/06/2003			
	•	ERSON, FARAE	EXAMINER		
DUNNER I 1300 I STR	EET, NW		RO, BENTSU		
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER	
				2837	
				DATE MAILED: 02/06/2003	<b>,</b>

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	lizant(s)					
	09/760,830	FÜJITA, JUN					
Office Action Summary	Examin r	Art Unit					
	Bentsu Ro	2837					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, howe within the statutory mini vill apply and will expire S cause the application to	ver, may a reply be timely filed finum of thirty (30) days will be considered timely.  SIX (6) MONTHS from the mailing date of this communication.  become ABANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	<u> </u>						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Th	is action is non-fir	nal.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>1-8</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdray	vn from considera	ation.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or Application Papers	r election requirer	ment.					
9) The specification is objected to by the Examine	r						
10)☐ The drawing(s) filed on is/are: a)☐ accept		ed to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been rece	ived.					
2. Certified copies of the priority documents	s have been rece	ived in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domesti	c priority under 35	5 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ol>	· =	Interview Summary (PTO-413) Paper No(s)  Notice of Informal Patent Application (PTO-152)  Other:					

Application/Control Number: 09760830

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## FIRST OFFICE ACTION

1. Specification correction is required as follows:

Page 3, line 14, change the "first-axis servo motor 106" to the --second-axis servo motor 106--, see drawing the same page line 11 and Fig. 1.

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The independent claims 1 and 5 both claim a "detecting the torque of the servo motors". Claimed this type of language should have an embodiment physically shows a torque detector or a motor current detector to detect the torque or current of the motor because the examiner must search a torque detector or a current detector to meet the claimed language.

According to applicant's embodiments, nowhere in Figs. 1-3 has applicant shown a torque detector (or current detector, all same hereinafter) to detect the motor torque, instead, the "detecting the torque of the servo motors" reads onto the torque command value.

In Fig. 1, it is clearly shown that the torque command value is derived from a position servo loop and a speed servo loop. There is no direct torque detection. Thus the torque value is a calculated value or a derived value, the torque value is not a detected value.

In view of the foregoing, applicant must accurately claim the subject matter which applicant has disclosed. The subject matter which applicant has not disclosed should not be claimed. Speak differently, the torque of the servo motors is derived from a speed value (a derivation value) and a position value (a detected value), thus the phrase "detecting the torque of the servo motors" cannot be claimed.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chitayat US Patent No. 4,812,725.

Examiner's note: all claimed language cannot be precisely met because applicant has claimed something different from the disclosed embodiment.

Regarding claims 1-8, Chitayat teaches a position control system and method including:

- two feed drive mechanisms, see Fig. 1;
- two servo motors 20 and 22, see Fig. 3;
- two position and velocity feedback generators 58 and 58', which are "detecting the torque of the servo motors" according to applicant's embodiments;
- a command generator 76 for generates a desired motor position, velocity, and/or acceleration command; and
- two motor controllers 80, 82 for correcting the position commands.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication should be directed to Bentsu Ro at telephone number 703 308-3656.

February 3, 2003

Bentsu Ro
Primary Examiner